

Data File : VV015166.D
Acq On : 26 Mar 2020 12:43
Operator : SY/MD
Sample : VSTD00562
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Quant Time: Mar 27 20:57:06 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032620WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 27 06:56:02 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	633063	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	612962	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	270092	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	17474	5.14	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	10.28%#
7) Chloroethane-d5	1.58	69	17598	5.14	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	10.28%#
11) 1,1-Dichloroethene-d2	2.12	63	39858	5.15	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	10.30%#
21) 2-Butanone-d5	3.90	46	98	0.03	ug/L	-0.03
Spiked Amount	100.000	Range	40 - 130	Recovery	=	0.03%#
24) Chloroform-d	4.38	84	35980	4.83	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	9.66%#
26) 1,2-Dichloroethane-d4	5.07	65	24075	4.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	9.80%#
32) Benzene-d6	5.08	84	62009	4.92	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	9.84%#
36) 1,2-Dichloropropane-d6	6.10	67	22974	5.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	10.10%#
41) Toluene-d8	7.34	98	57445	5.03	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	10.06%#
43) trans-1,3-Dichloropropene-	7.65	79	12128	4.90	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	9.80%#
47) 2-Hexanone-d5	8.12	63	25174	9.47	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	9.47%#
57) 1,1,2,2-Tetrachloroethane-	10.24	84	39350	5.09	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	10.18%#
64) 1,2-Dichlorobenzene-d4	11.65	152	25426	5.04	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	10.08%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	33015	5.910	ug/L	100
3) Chloromethane	1.25	50	34173	5.633	ug/L	100
5) Vinyl chloride	1.32	62	35341	5.687	ug/L	98
6) Bromomethane	1.53	94	22715	5.664	ug/L	95
8) Chloroethane	1.60	64	23753	5.846	ug/L	98
9) Trichlorofluoromethane	1.77	101	54457	5.311	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	30049	5.795	ug/L	97
12) 1,1-Dichloroethene	2.13	96	28953	5.671	ug/L	97
13) Acetone	2.23	43	14252	6.093	ug/L #	76
14) Carbon disulfide	2.31	76	75336	5.754	ug/L	97
15) Methyl Acetate	2.46	43	28857	5.959	ug/L	92
16) Methylene chloride	2.53	84	26905	5.645	ug/L	94
17) trans-1,2-Dichloroethene	2.78	96	25534	5.754	ug/L	99
18) Methyl tert-butyl Ether	2.79	73	85080	5.689	ug/L	99
19) 1,1-Dichloroethane	3.22	63	47971	5.853	ug/L	98
20) cis-1,2-Dichloroethene	3.94	96	29019	5.871	ug/L #	90
23) Bromochloromethane	4.29	128	13219	5.528	ug/L	94

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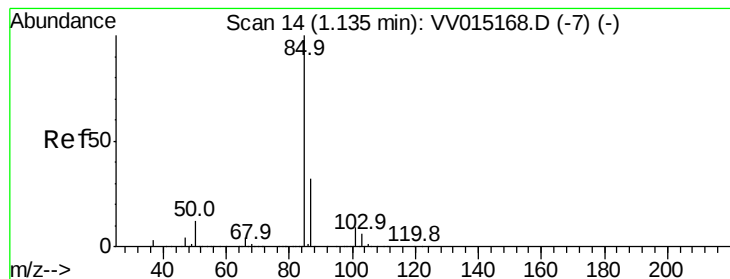
Quant Time: Mar 27 20:57:06 2020
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Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) Chloroform	4.41	83	46581	5.517	ug/L	94
27) 1,2-Dichloroethane	5.16	62	38194	5.705	ug/L	95
29) Cyclohexane	4.71	56	42669	5.688	ug/L	98
30) 1,1,1-Trichloroethane	4.64	97	43637	5.622	ug/L	99
31) Carbon tetrachloride	4.86	117	36668	5.620	ug/L	96
33) Benzene	5.13	78	104205	5.710	ug/L	100
34) Trichloroethene	5.94	95	26057	5.481	ug/L	97
35) Methylcyclohexane	6.15	83	45332	5.738	ug/L	98
37) 1,2-Dichloropropane	6.20	63	26457	5.670	ug/L	98
38) Bromodichloromethane	6.54	83	37594	5.685	ug/L	98
39) cis-1,3-Dichloropropene	7.05	75	43022	5.516	ug/L	97
40) 4-Methyl-2-pentanone	7.26	43	79195	11.256	ug/L	97
42) Toluene	7.41	91	115339	5.665	ug/L	96
44) trans-1,3-Dichloropropene	7.68	75	40968	5.380	ug/L	94
45) 1,1,2-Trichloroethane	7.86	97	24577	5.381	ug/L	98
46) Tetrachloroethene	8.00	164	16629	5.205	ug/L	93
48) 2-Hexanone	8.17	43	62448	11.239	ug/L	99
49) Dibromochloromethane	8.27	129	27253	5.416	ug/L	100
50) 1,2-Dibromoethane	8.38	107	27010	5.433	ug/L #	92
51) Chlorobenzene	8.90	112	72771	5.596	ug/L	96
52) Ethylbenzene	9.04	91	126979	5.536	ug/L	99
53) m,p-Xylene	9.16	106	47970	5.482	ug/L	95
54) o-xylene	9.57	106	48683	5.539	ug/L	99
55) Styrene	9.58	104	81993	5.514	ug/L	96
56) Isopropylbenzene	9.95	105	121399	5.380	ug/L	98
58) 1,1,2,2-Tetrachloroethane	10.26	83	43057	5.593	ug/L	100
59) 1,2,3-Trichloropropane	10.30	75	34609	5.584	ug/L	97
61) Bromoform	9.76	173	16817	5.404	ug/L #	95
62) 1,3-Dichlorobenzene	11.21	146	50986	5.630	ug/L	98
63) 1,4-Dichlorobenzene	11.30	146	52597	5.749	ug/L	97
65) 1,2-Dichlorobenzene	11.67	146	52506	5.719	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.45	75	12429	6.093	ug/L	95
67) 1,3,5-Trichlorobenzene	12.67	180	31983	5.519	ug/L	98
68) 1,2,4-trichlorobenzene	13.29	180	30260	5.475	ug/L	98
69) Naphthalene	13.53	128	121952	5.510	ug/L	99
70) 1,2,3-Trichlorobenzene	13.77	180	28733	5.192	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 5.910 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

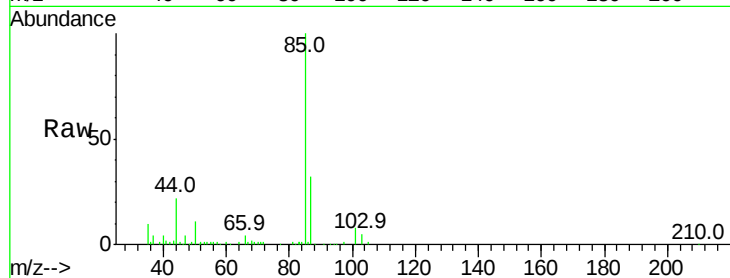
VSTD00562

Tgt Ion: 85 Resp: 33015

Ion Ratio Lower Upper

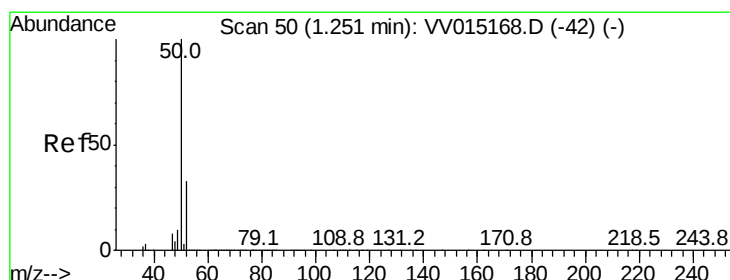
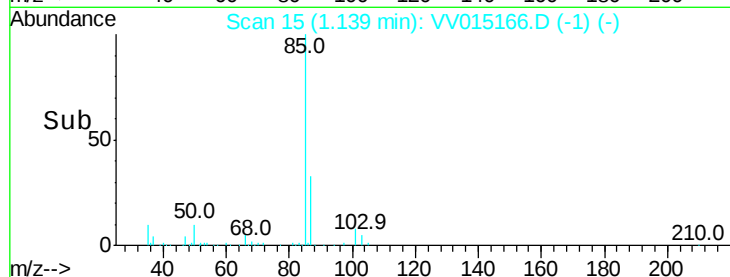
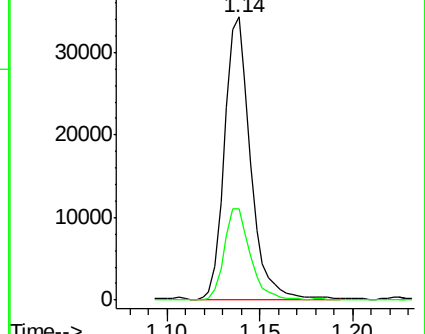
85 100

87 32.6 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 5.633 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV015166.D

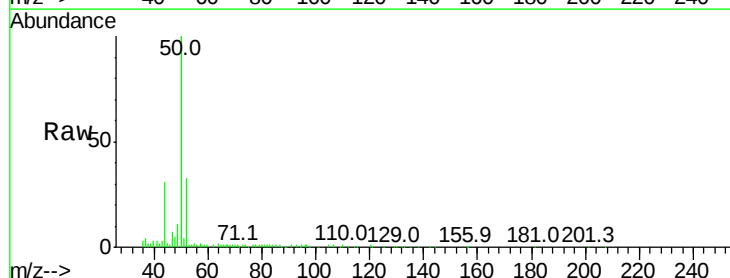
Acq: 26 Mar 2020 12:43

Tgt Ion: 50 Resp: 34173

Ion Ratio Lower Upper

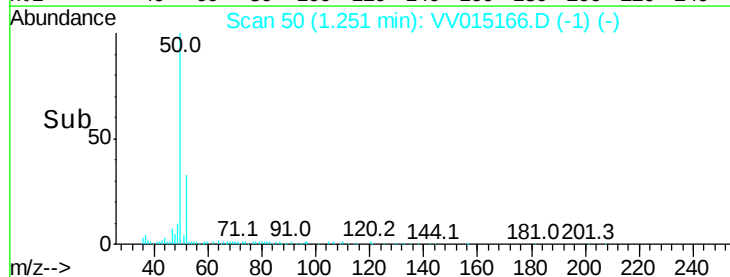
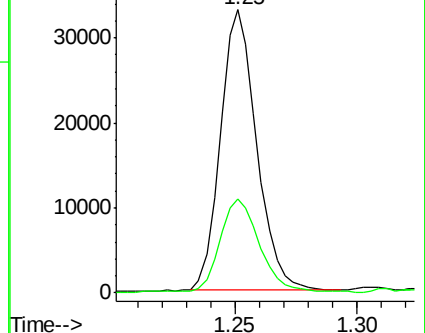
50 100

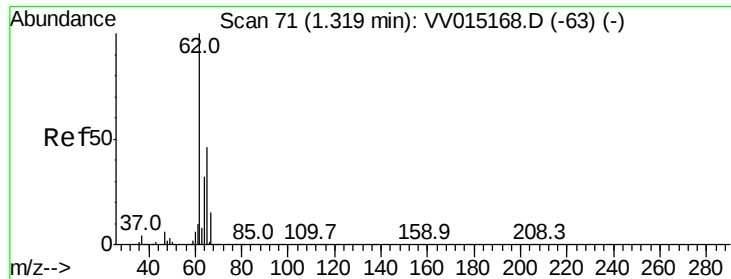
52 33.0 23.2 43.2



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 5.687 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

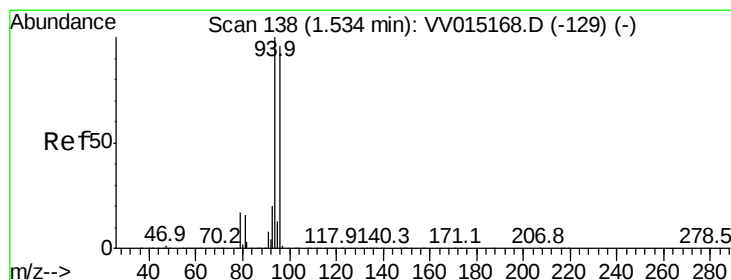
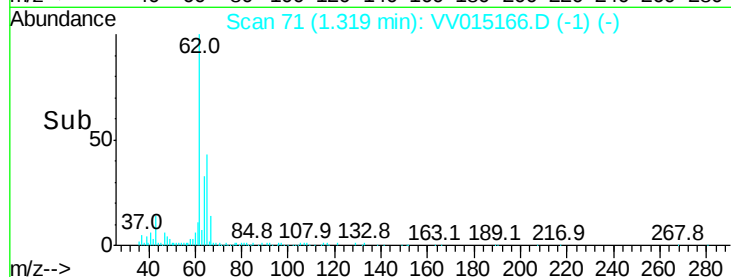
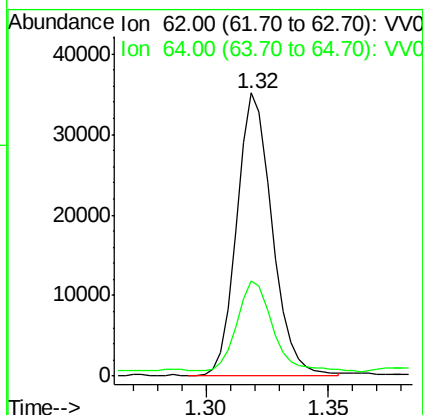
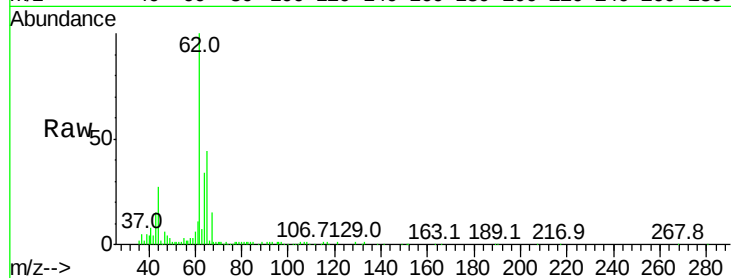
VSTD00562

Tgt Ion: 62 Resp: 35341

Ion Ratio Lower Upper

62 100

64 33.8 22.8 42.4



#6

Bromomethane

Concen: 5.664 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV015166.D

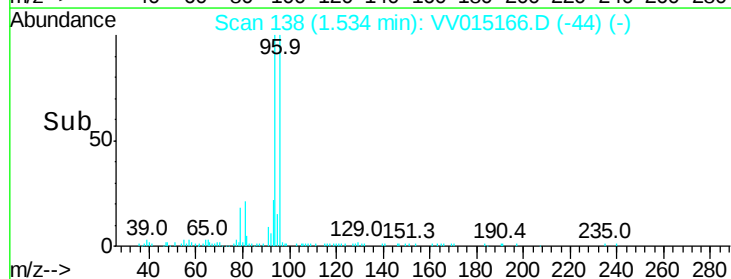
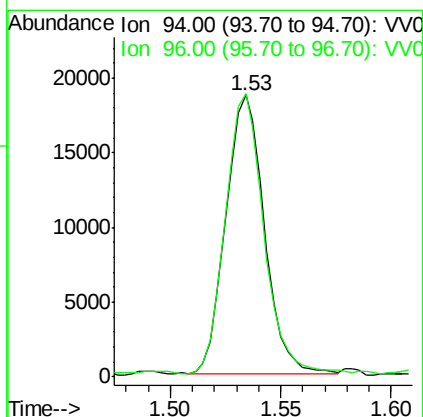
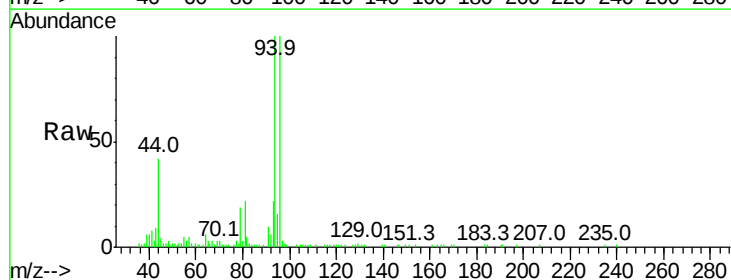
Acq: 26 Mar 2020 12:43

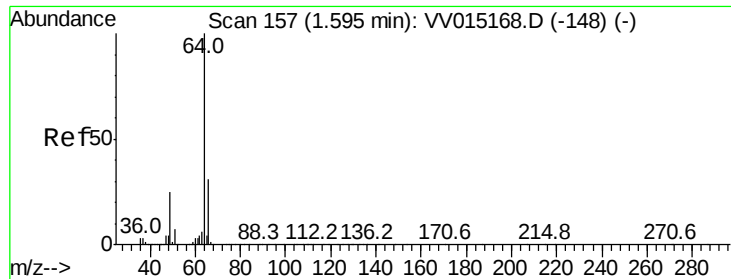
Tgt Ion: 94 Resp: 22715

Ion Ratio Lower Upper

94 100

96 100.4 67.1 124.7

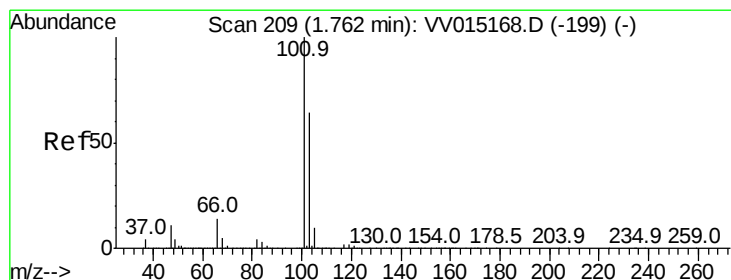
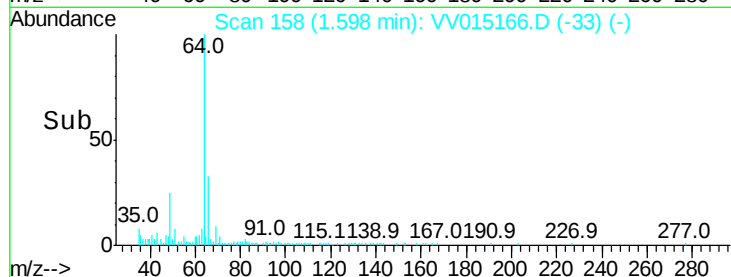
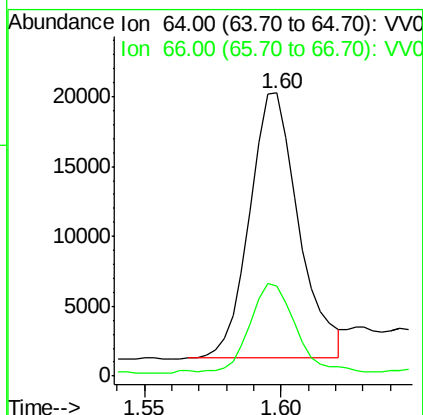
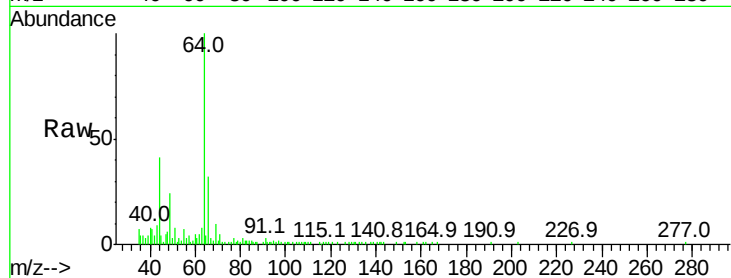




#8
Chloroethane
Concen: 5.846 ug/L
RT: 1.60 min Scan# 158
Delta R.T. 0.00 min
Lab File: VV015166.D
Acq: 26 Mar 2020 12:43

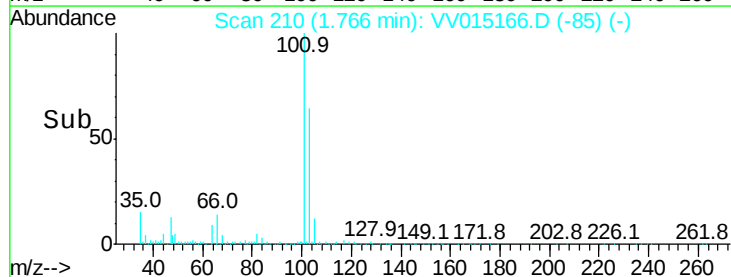
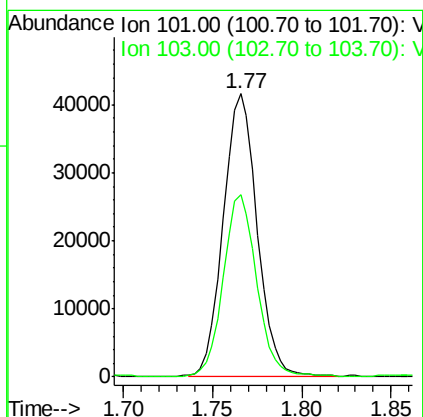
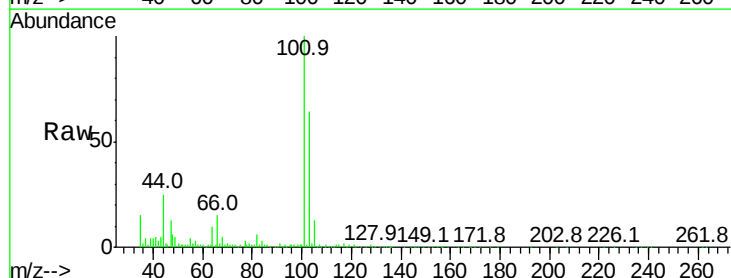
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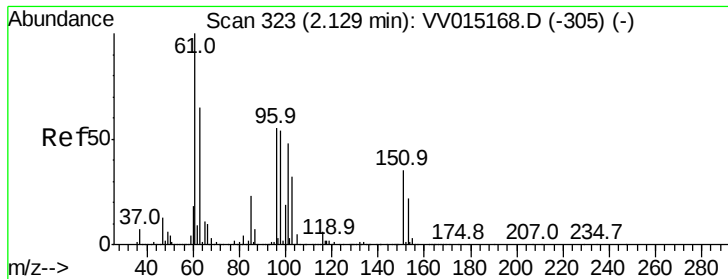
Tgt Ion: 64 Resp: 23753
Ion Ratio Lower Upper
64 100
66 31.9 21.6 40.2



#9
Trichlorofluoromethane
Concen: 5.311 ug/L
RT: 1.77 min Scan# 210
Delta R.T. 0.00 min
Lab File: VV015166.D
Acq: 26 Mar 2020 12:43

Tgt Ion: 101 Resp: 54457
Ion Ratio Lower Upper
101 100
103 63.5 50.8 76.2





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.795 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

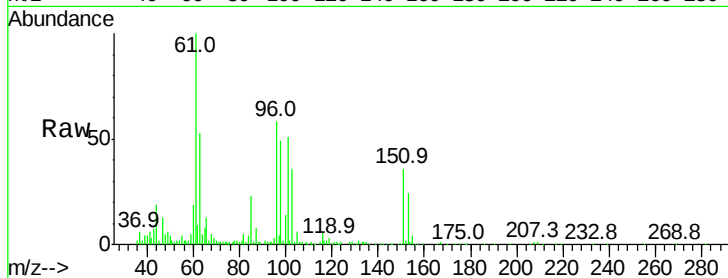
Tgt Ion: 101 Resp: 30049

Ion Ratio Lower Upper

101 100

85 44.3 37.1 55.7

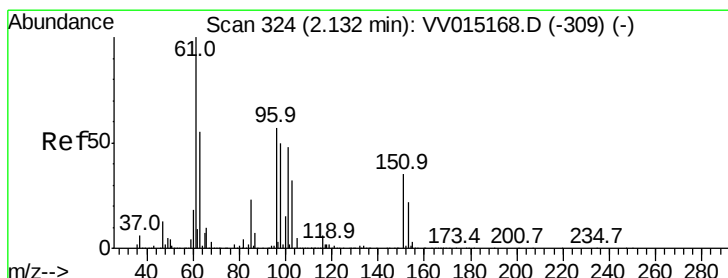
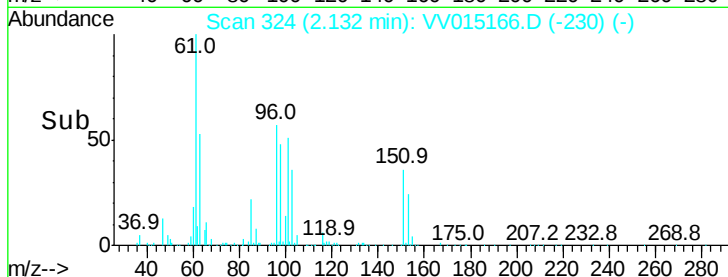
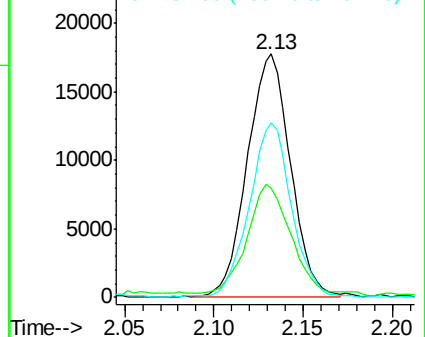
151 69.9 57.7 86.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.671 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

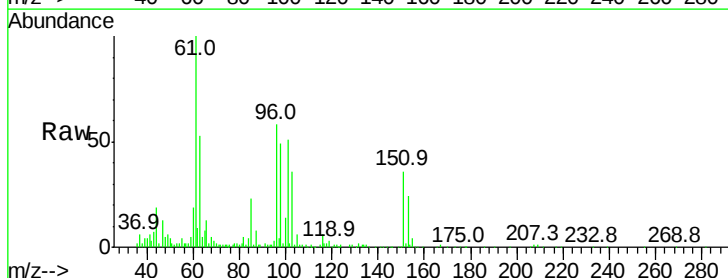
Tgt Ion: 96 Resp: 28953

Ion Ratio Lower Upper

96 100

61 172.4 122.3 227.1

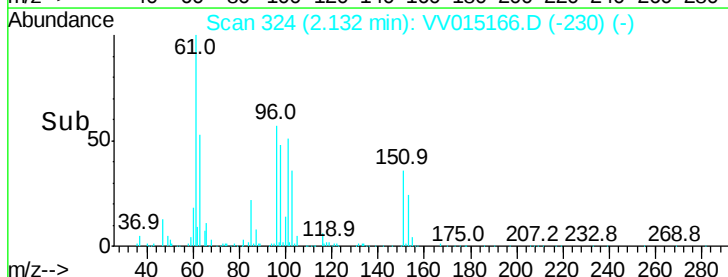
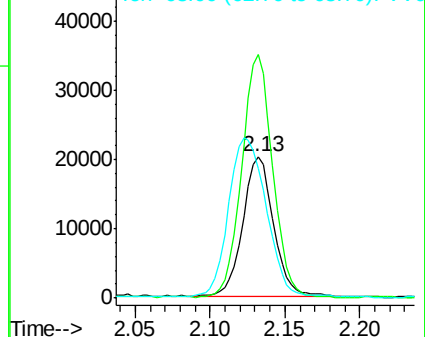
63 92.1 67.9 126.1

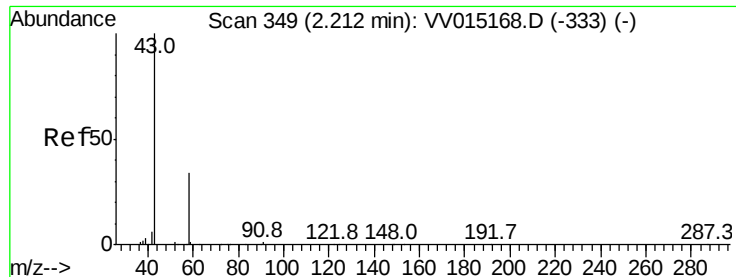


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.093 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.01 min

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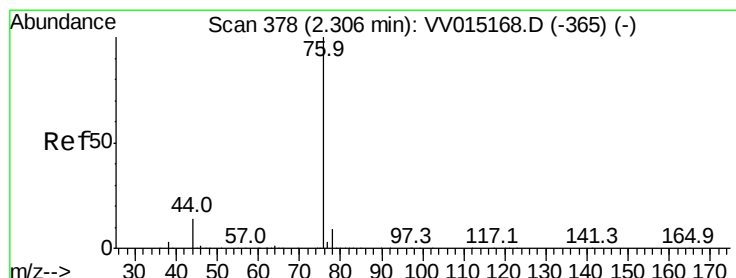
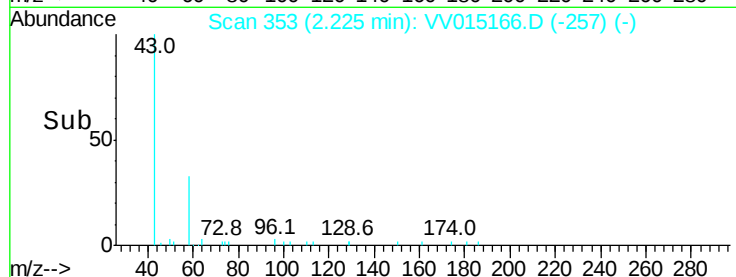
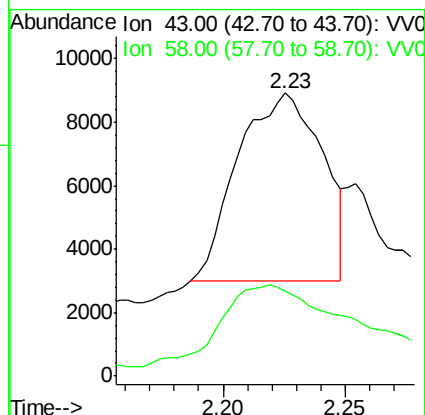
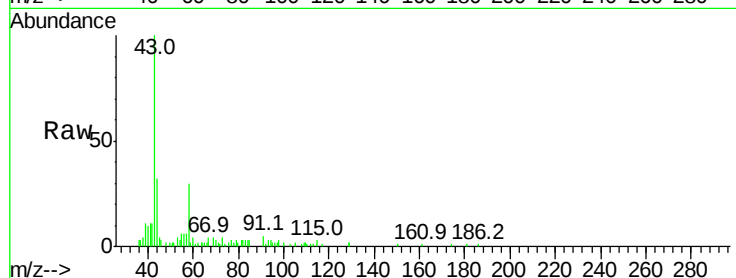
VSTD00562

Tgt Ion: 43 Resp: 14252

Ion Ratio Lower Upper

43 100

58 55.4 0.0 0.2#



#14

Carbon disulfide

Concen: 5.754 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV015166.D

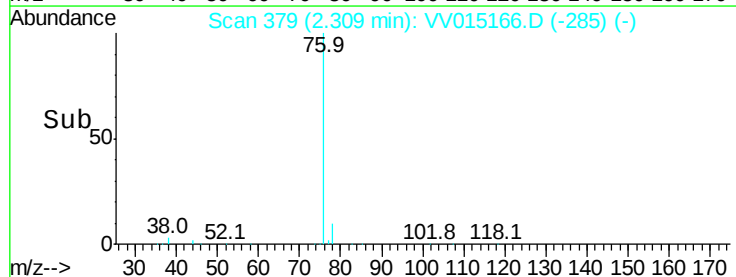
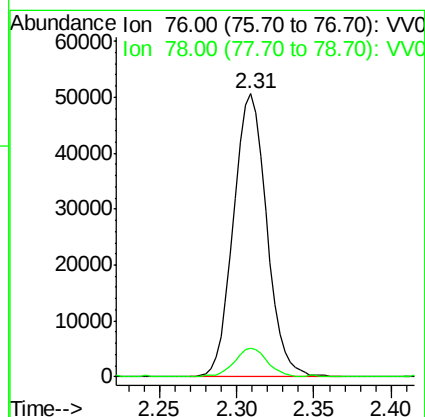
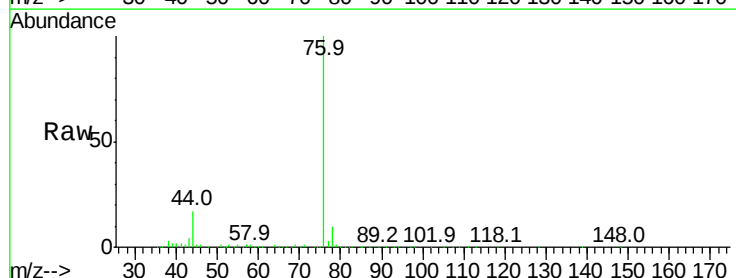
Acq: 26 Mar 2020 12:43

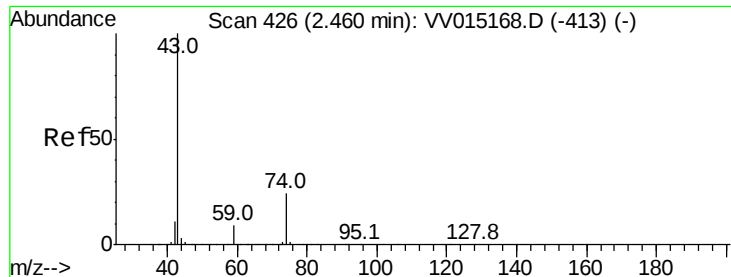
Tgt Ion: 76 Resp: 75336

Ion Ratio Lower Upper

76 100

78 10.2 7.4 11.0

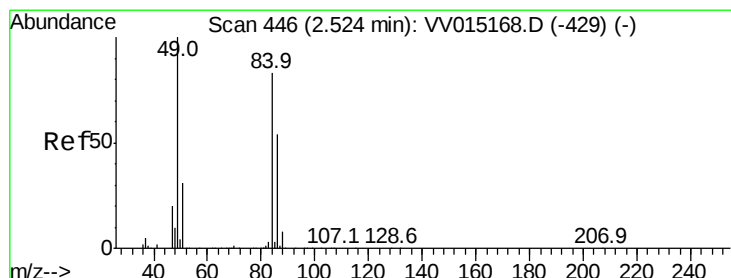
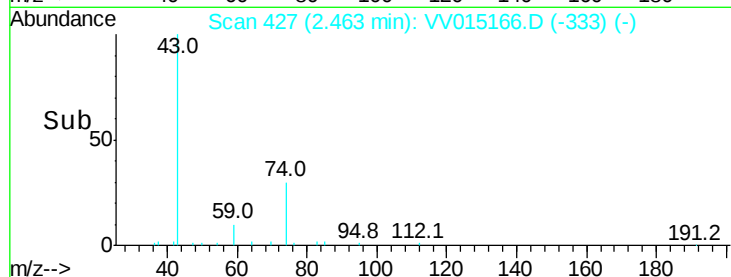
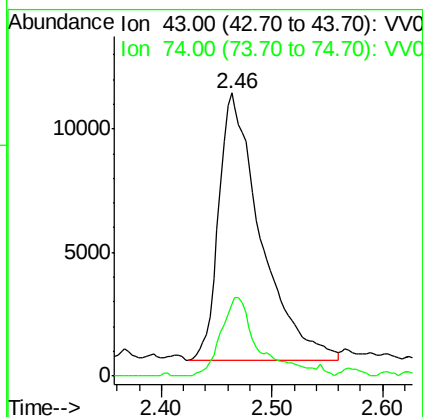
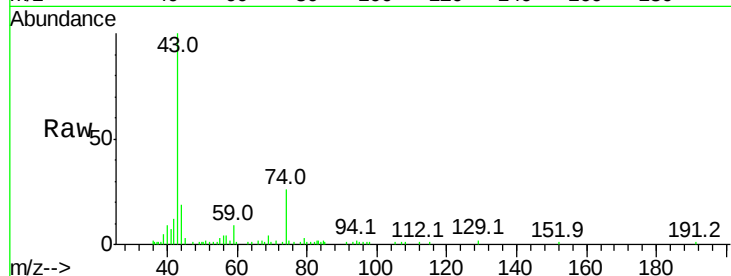




#15
Methyl Acetate
Concen: 5.959 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV015166.D
Acq: 26 Mar 2020 12:43

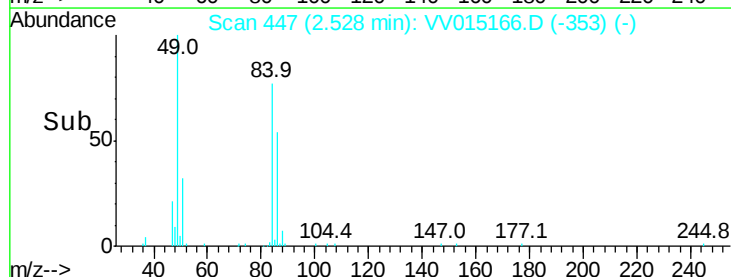
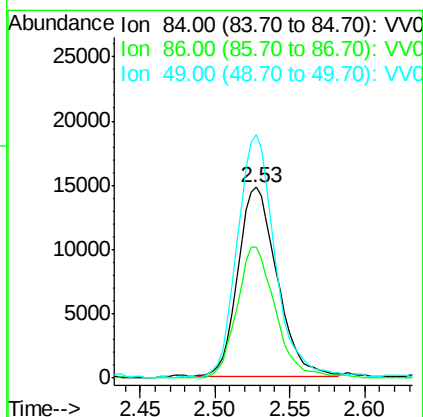
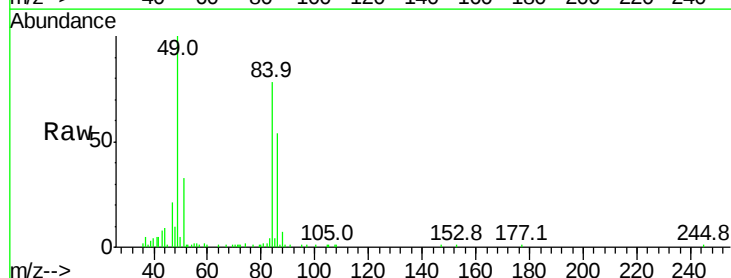
Instrument :
MSVOA_V
ClientSampled :
VSTD00562

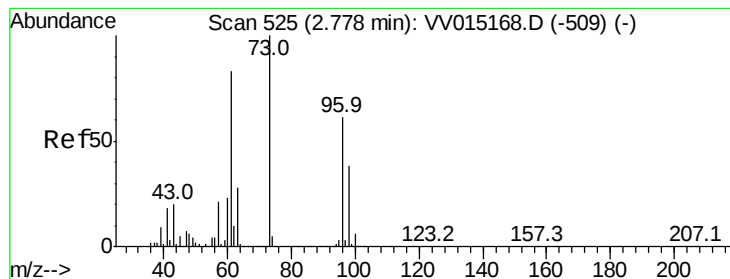
Tgt Ion: 43 Resp: 28857
Ion Ratio Lower Upper
43 100
74 20.9 20.0 30.0



#16
Methylene chloride
Concen: 5.645 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV015166.D
Acq: 26 Mar 2020 12:43

Tgt Ion: 84 Resp: 26905
Ion Ratio Lower Upper
84 100
86 68.6 45.1 83.9
49 127.5 84.2 156.4





#17

trans-1,2-Dichloroethene

Concen: 5.754 ug/L

RT: 2.78 min Scan# 526

Delta R.T. 0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

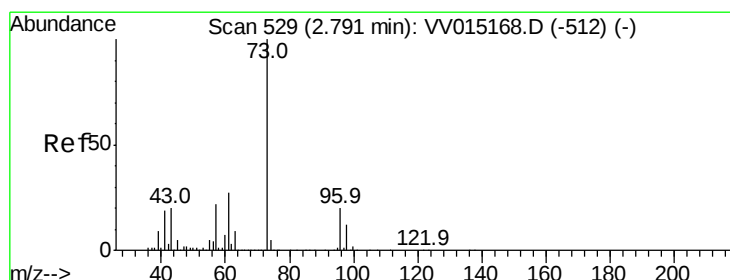
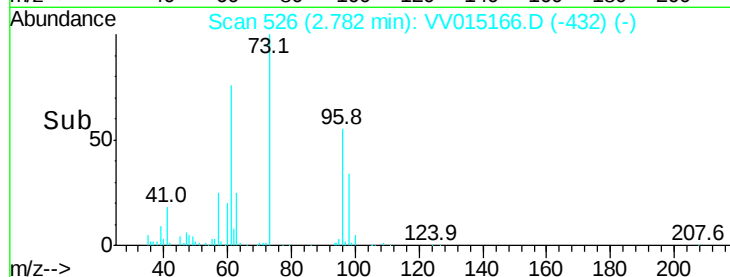
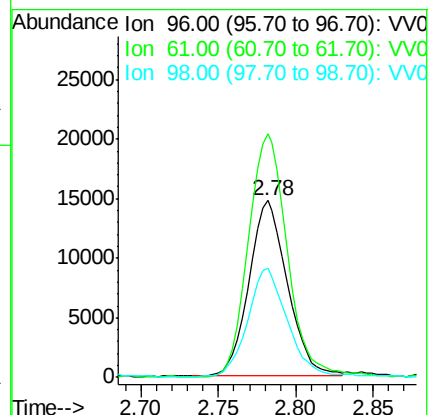
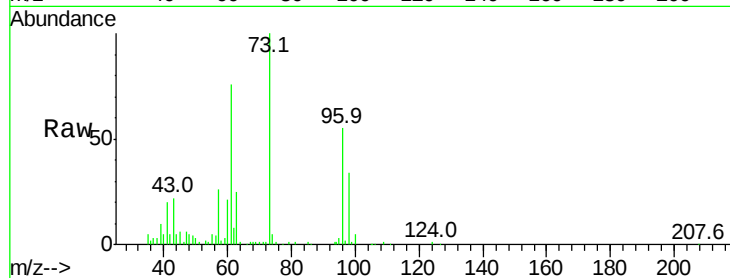
Tgt Ion: 96 Resp: 25534

Ion Ratio Lower Upper

96 100

61 137.8 96.4 179.0

98 61.5 43.8 81.4



#18

Methyl tert-butyl Ether

Concen: 5.689 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

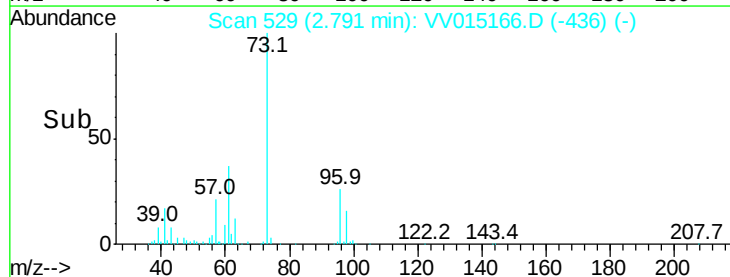
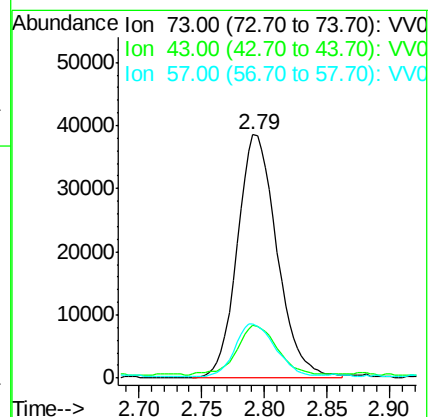
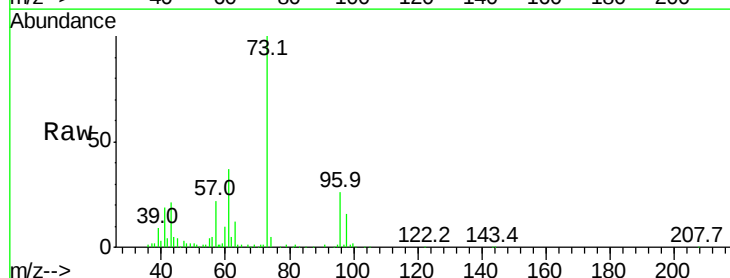
Tgt Ion: 73 Resp: 85080

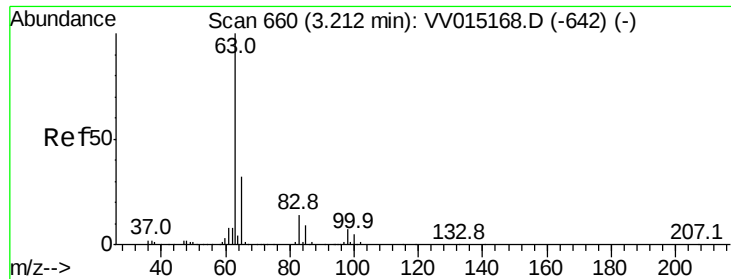
Ion Ratio Lower Upper

73 100

43 20.4 15.8 23.6

57 21.5 17.1 25.7





#19

1,1-Dichloroethane

Concen: 5.853 ug/L

RT: 3.22 min Scan# 661

Delta R.T. 0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

Instrument :

MSVOA_V

ClientSampleId :

VSTD00562

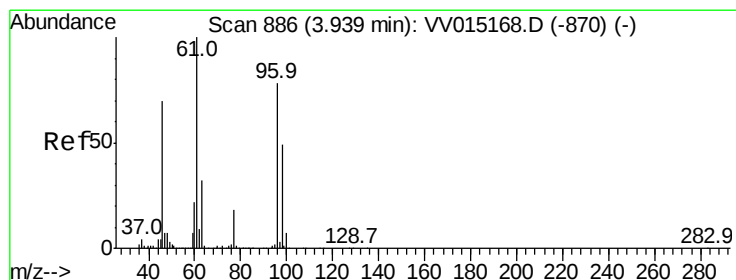
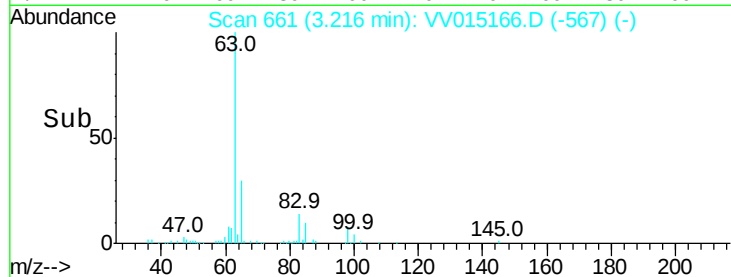
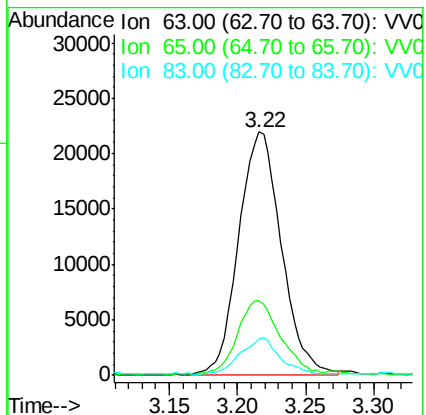
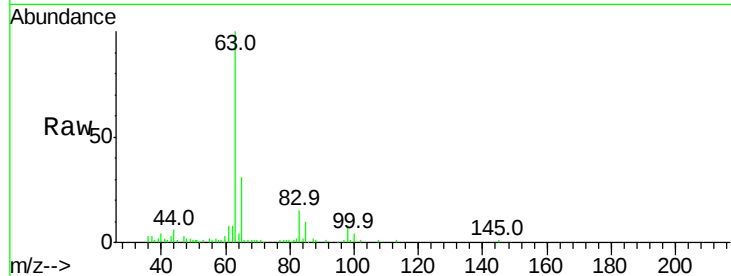
Tgt Ion: 63 Resp: 47971

Ion Ratio Lower Upper

63 100

65 30.7 22.2 41.2

83 14.9 9.6 17.8



#20

cis-1,2-Dichloroethene

Concen: 5.871 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.00 min

Lab File: VV015166.D

Acq: 26 Mar 2020 12:43

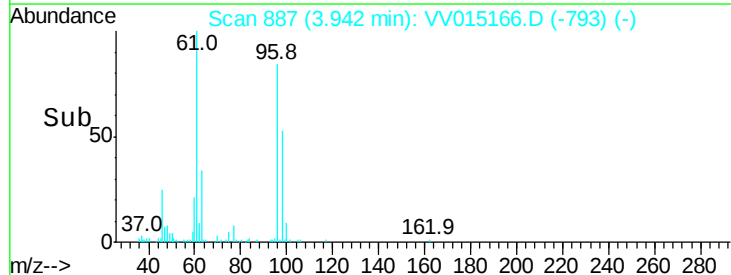
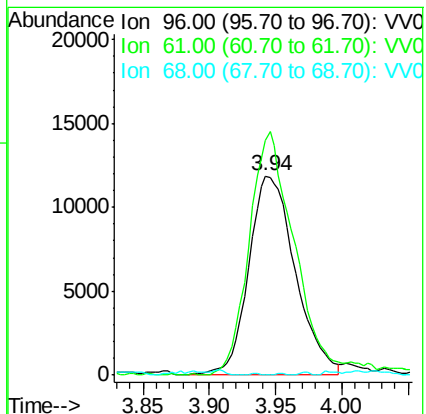
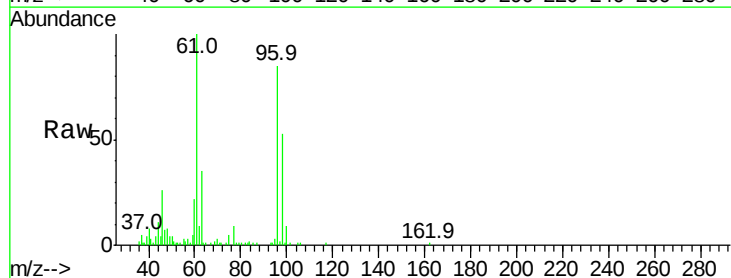
Tgt Ion: 96 Resp: 29019

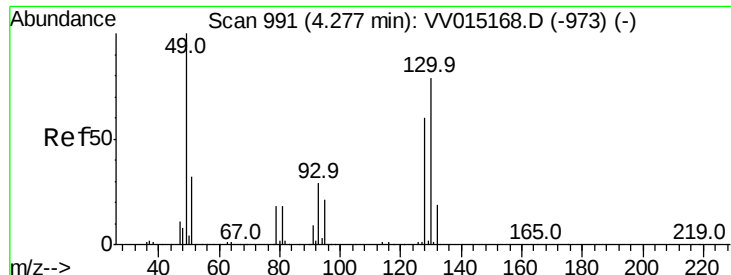
Ion Ratio Lower Upper

96 100

61 117.5 90.2 167.4

68 0.0 0.1 0.3#

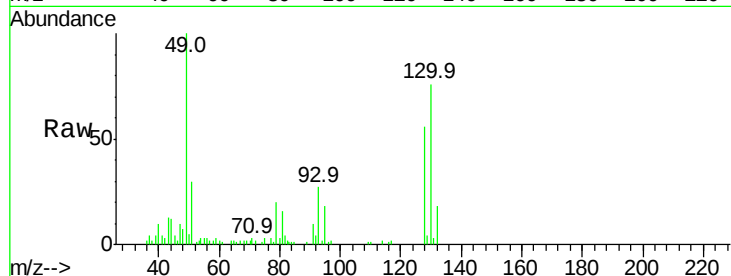




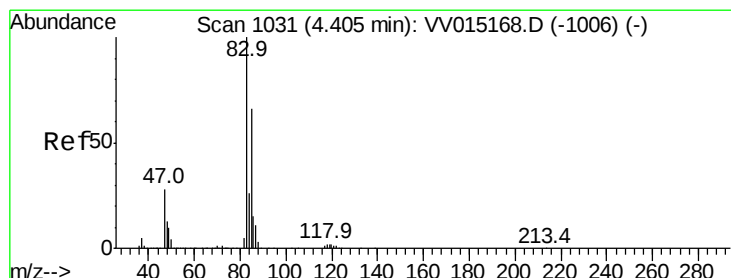
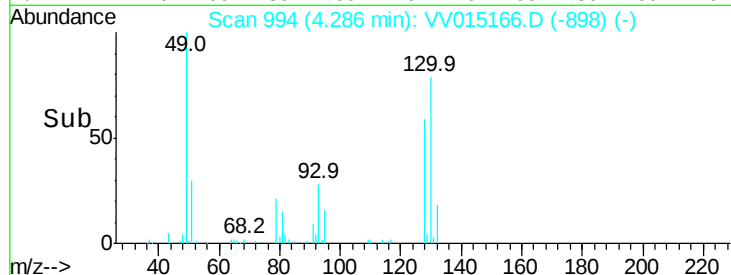
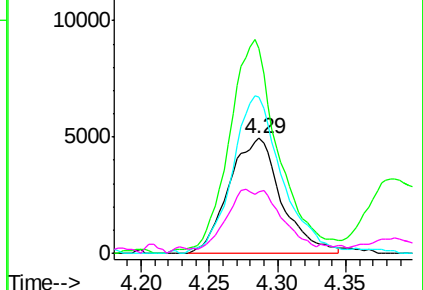
#23
Bromochloromethane
Concen: 5.528 ug/L
RT: 4.29 min Scan# 994
Delta R.T. 0.01 min
Lab File: VV015166.D
Acq: 26 Mar 2020 12:43

Instrument :
MSVOA_V
ClientSampleId :
VSTD00562

Tgt Ion:128 Resp: 13219
Ion Ratio Lower Upper
128 100
49 178.1 116.5 216.3
130 135.8 91.4 169.8
51 53.4 43.4 65.2

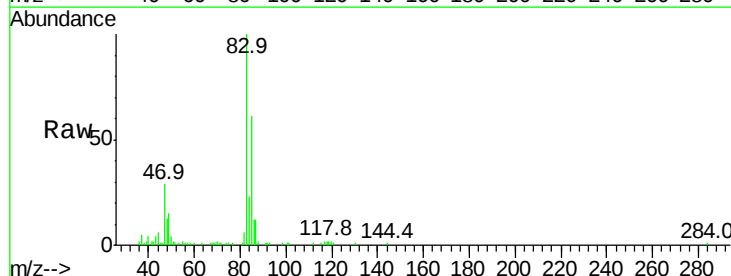


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0



#25
Chloroform
Concen: 5.517 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.00 min
Lab File: VV015166.D
Acq: 26 Mar 2020 12:43

Tgt Ion: 83 Resp: 46581
Ion Ratio Lower Upper
83 100
85 60.9 46.2 85.8



Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 85.00 (84.70 to 85.70): VV0

